Using a Triple Beam Balance

By Jim Hill

*Directions: Please visit the follow internet URL below and view the video titled Using A Triple Beam Balance by Jim Hill. Use e information contained in the video to answer the following questions.*

[*Http://www.youtube.com/watch?v=C9howXG7LUY*](Http://www.youtube.com/watch?v=C9howXG7LUY)

1. Where should the pointer be located before placing an item on the pan?
2. How do you adjust the triple beam balance (TBB) so that the pointer is located in the proper position before placing an item on the pan?
3. What happens to the arm of the TBB when an item is placed on the pan?
4. What were the increments of measurements on the first beam that Mr. Hill slid the slider on? Why do you think he chose to move this slider first?
5. What do you do if the slider side is heavier than the item side of the balance?
6. What were the measurements on the second beam that Mr. Hill slid the slider on? Why was it necessary to move the second slider?
7. What were the measurements on the third beam that Mr. Hill slid the slider on? Why was it necessary to move this slider?
8. Where do the marks between 0 and 1 go? What do they represent?
9. Describe what Mr. Hill did to get the mass of the coffee cup from start to finish.
10. What do you think would be an error you might make when reading the TBB?  Why?